1914.

TYNE PORT SANITARY AUTHORITY.

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH.

NEWCASTLE-UPON-TYNE:

ANDREW REID & COMPANY, LIMITED, PRINTING COURT BUILDINGS.

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Tyne Port Sanitary Authority.

CONSTITUTED BY LOCAL GOVERNMENT BOARD'S ORDER, DATED 29TH MARCH, 1897.

Elected by the Corporation of Newcastle.

ALDERMAN WILLIAM EDWARD KIRBY.
ALDERMAN GEORGE CHRISTOPHER COATES (*Chairman*).
ALDERMAN DR. ADAM WILSON.
COUNCILLOR HENRY FORSTER.
COUNCILLOR WILLIAM BRAMBLE.
COUNCILLOR JOHN GRAHAM COLE.
COUNCILLOR FRANCIS ELLIOTT WEIGHTMAN.
COUNCILLOR WILLIAM ROBSON.

Elected by the Corporation of Gateshead.

ALDERMAN ALEXANDER GILLIES.
ALDERMAN WILLIAM CLOUGH (*Vice-Chairman*).
COUNCILLOR DR. F. S. LEECH.

Elected by the Corporation of South Shields.

ALDERMAN JOHN ROBERT LAWSON.
ALDERMAN DR. ERNEST HENRY GIBBON.
ALDERMAN GEORGE THOMAS GREY.

Elected by the Corporation of Tynemouth.

COUNCILLOR JOHN FRATER.
COUNCILLOR JOHN HEWITSON TEBB.

Elected by the Corporation of Jarrow.

ALDERMAN JAMES DUDFIELD ROSE.

Elected by the Corporation of Wallsend.

ALDERMAN JAMES GRAHAM McILVENNA.
COUNCILLOR JOHN SCORER.

Elected by the Felling Urban District Council.

COUNCILLOR PATRICK BENNETT.

Elected by the Hebburn Urban District Council.

COUNCILLOR BERNARD KELLY.

Elected by the Blaydon Urban District Council.

COUNCILLOR REVEREND ALFRED BARRETT TEBB.

Elected by the Newburn Urban District Council.

COUNCILLOR MATTHEW KIRTON.

Elected by the Whickham Urban District Council.

COUNCILLOR FRED BROWN.

Officers:

Medical Officer of Health	WM. EDMUND HARKER, M.D., B.S., D.HY.
Clerk and Solicitor	R. SHERITON HOLMES.
Treasurer	THOMAS EDWARD HODGKIN.
Inspector of Nuisances	JOHN RUSSELL, Cert. Royal Sanitary Institute.
Assistant Inspectors	T. W. STURDY, Cert. Sanitary Institute; J. W. DAVISON, Cert. Sanitary Institute; R. B. CLARK, Cert. Sanitary Institute; CHARLES IRVIN, Assoc. Royal Sanitary Institute; H. M. COATS.

Offices: Caledonian Buildings, 145, Pilgrim Street, Newcastle-upon-Tyne.

Inspector's Offices: Tyne Port Sanitary Authority, Mill Dam, South Shields.

Tyne Port Sanitary Authority.

H.M. Hospital Ship, "Plassy,"
January, 1915.

Mr. ALD. GEORGE CHRISTOPHER COATES,
Chairman of the Tyne Port Sanitary Authority.

Sir,

I have the honour to present herewith my Annual Report for the year 1914.

It has been an eventful year, a year that will stand out prominently in the annals of our country as marking the commencement of the greatest war in the world's history. A war waged with all the resources of our great Empire against the forces of a malignant militarism, cloaked by the name of "Kultur," it threatened civilized Europe as the plague might endanger the healthy population of our seaports and cities.

In our work as a Port Sanitary Authority, we wage a continual war against unseen foes in the form of Foreign Infectious diseases, which are transported from country to country by the peaceful Mercantile Marine and which become a menace to the Public Health when they gain a foothold in our midst. Our equipment as the first line of defence to combat these dangers has been made more efficient during this eventful year, and the work this entailed I am pleased to say, was completed before the European War broke out. We are well prepared to deal with an increase of sea-borne diseases which we may expect during and after war, by the action of the Board over which you preside in re-organising and increasing your River Staff, and supplying a new steam launch the "George C. Coates." This well appointed craft has proved to be a great acquisition in dealing with the large number of vessels arriving in the Tyne Ports.

On June 5th, John Russell, your Senior Assistant Inspector was appointed Chief Inspector. Under his experienced guidance the staff are carrying out their responsible duties in a loyal and satisfactory manner.

On August 5th, I received a telegram from the Admiralty to proceed to Southampton to take up my duties as Surgeon, R.N.V.R. Dr. Baker of North Shields readily agreed to act for me in my absence, and I left a few hours later. During the month of August I had the honour of superintending the fitting out of H.M. Hospital Ship "Plassy," and have been on the staff of the same vessel on active service ever since.

I appreciate the way in which the Authority have facilitated my arrangements, and their good wishes.

I am, Sir,
Your obedient Servant,
W. EDMUND HARKER.

TYNE PORT SANITARY AUTHORITY.

Report of the Medical Officer of Health for the Year ended 31st December, 1914.

During 1914, 23 patients have been treated in the Floating Hospital. The subjoined Table gives particulars as to the cases and their issue :—

TABLE I.

Floating Hospital.

Date of Admission.	Disease.	Cases Admitted.	Name of Vessel.	Where from.	Result.
1914.					
Jan. 30th ...	Suspected Enteric Fever ...	1	s.s. "Constance Catharina"	Boulogne	Discharged Feb. 2, 1914
Feb. 14th ...	Enteric Fever ...	1	s.s. "Emma"	Dunkirk	,, Mar. 19, ,,
,, 23rd ...	Diphtheria ...	1	s.s. "Leif"	Bo'ness	,, ,, 10, ,,
Mar. 1st ...	Suspected Enteric Fever ...	1	s.s. "Emma"	Dunkirk	,, ,, 3, ,,
,, 5th ...	,, ,, ...	1	s.t. "Canada"	Boulogne	,, ,, 23, ,,
,, 19th ...	,, ,, ...	1	s.s. "Aladdin"	Dantzic	,, Apr. 7, ,,
Apr. 3rd ...	Beri Beri... ...	1	s.s. "Volute"	Barrow	,, May 15, ,,
,, 3rd ...	Suspected Enteric Fever ...	1	s.s. "Neva"	Bremen	,, Apr. 8, ,,
,, 8th ...	Measles	1	s.s. "Hornsey"... ...	London	,, ,, 23, ,,
,, 9th ...	Malarial Fever ...	1	s.s. "Nimrod"	Brake...	,, ,, 20, ,,
,, 30th ...	Enteric Fever ...	1	sl. "Brizeux"	Dunkirk	,, June 16, ,,
July 7th ...	Suspected Enteric Fever ...	1	s.s. "Carmelite" ...	Algiers	,, July 17, ,,
,, 29th ...	Enteric Fever ...	1	s.s. "Tua"	Libau...	,, Sept. 3, ,,
Aug. 25th ...	Suspected Enteric Fever ...	1	s.s. "Dulwich"... ...	Antwerp	,, ,, 2, ,,
Oct. 1st ...	Enteric Fever ...	1	s.s. "Jose de Aramburu"	Santander	,, Dec. 4, ,,
		15			
Feb. 7th ...	Enteric Fever ...	1	Jarrow Corporation ...	——	,, Apr. 11, ,,
,, 7th ...	,, ...	2	,, ...	——	,, Mar. 7, ,,
Apr. 30th ...	,, ...	1	,, ...	——	,, June 3, ,,
May 7th ...	,, ...	1	,, ...	——	,, ,, 10, ,,
July 18th ...	,, ...	1	,, ...	——	,, Sept. 8, ,,
Nov. 13th ...	,, ...	1	,, ...	——	,, Dec. 22, ,,
,, 18th ...	,, ...	1	,, ...	——	,, ,, 22, ,,
		8			

Vessels boarded by the Medical Officer of Health.

81 vessels have been visited by Medical Officer of Health on account of reported or suspected sickness on board.

The following table gives the list of vessels boarded during 1914 by the Medical Officer of Health on account of disease on board during the voyage, or at the time of arrival in the Tyne :—

TABLE II.

Date.	Name of Vessel.	Nationality.	Where from.	Nature of Sickness.	Remarks.
1914. Jan. 15	s.s. "Hampstead"	British ...	Rotterdam ...	Beri Beri ...	The Medical Officer of Health examined one of the Asiatic seamen who was found to be recovering from beri beri.
,, 26	s.s. "Culna" ...	,,	Calcutta, Antwerp	Non-infectious ...	The Medical Officer of Health examined four of the Asiatic seamen and found them to be suffering from non-infectious complaints. Medical treatment recommended.
,, 30	s.s. "Constance Catharina"	Dutch ...	Boulogne ...	Suspected Enteric Fever	One of the crew was examined and found to be suffering from suspected enteric fever. He was removed to the Floating Hospital for treatment. The water tanks were emptied and cleansed and the crewspaces fumigated.
Feb. 2	s.s. "Marthara" ...	British ...	New Orleans, Antwerp	Influenza ...	The Medical Officer of Health examined the mate, and found him to be suffering from influenza.
,, 11	s.s. "Sverige" ...	Swedish ...	Santander, Rotterdam	Tonsilitis ...	One of the firemen was examined and found to be suffering from tonsilitis.
,, 12	s.s. "Patella" ...	British ...	Singapore, London	Non-infectious ...	The Medical Officer of Health examined three of the Asiatic seamen and found them to be suffering from non-infectious complaints. Medical treatment recommended.
,, 13	s.s. "Emma" ...	Swedish ...	Riga, Dunkirk	Enteric Fever ...	One of the crew was examined and found to be suffering from enteric fever. He was removed to the Floating Hospital for treatment. The water tanks were emptied and cleansed, and the crewspaces were fumigated.
,, 19	s.s. "Smut" ...	Danish ...	Copenhagen	Tonsilitis ...	One of the seamen was examined and found to be suffering from tonsilitis. Medical treatment recommended.
,, 23	s.s. "Leif" ...	Norwegian	Halmstadt, Bo'ness	Diphtheria ...	The Medical Officer of Health examined one of the firemen and found him to be suffering from diphtheria. He was removed to the Floating Hospital for treatment and the crewspaces were disinfected.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where from.	Nature of Sickness.	Remarks.
Mar. 1	s.s. "Emma" ...	Swedish ...	Riga, Dunkirk	Suspected Enteric Fever	The Medical Officer of Health examined one of the crew and found him to be suffering from suspected enteric fever. He was removed to the Floating Hospital for treatment. The crewspaces were disinfected.
,, 4	s.s. "Vidar" ...	,,	Antwerp ...	Non-infectious ...	One of the crew was examined and found to be suffering from a non-infectious complaint. Medical treatment recommended.
,, 5	s.s. "Helene" ...	Danish ...	Copenhagen	Duodenal Ulcer...	The Medical Officer of Health examined one of the crew and found him to be suffering from a duodenal ulcer. Medical treatment recommended.
,, 5	s.s. "Canada" ...	French ...	Boulogne ...	Enteric Fever ...	One of the crew was examined and found to be suffering from enteric fever. He was removed to the Floating Hospital for treatment. The water tanks were emptied and cleansed and the crewspaces were fumigated.
,, 19	s.s. "Aladdin" ...	Norwegian	Danzig ...	Enteric Fever ...	The Medical Officer of Health examined one of the seamen and found him to be suffering from enteric fever. He was removed to the Floating Hospital for treatment. The drinking water tanks were emptied and cleansed and all crewspaces were disinfected.
,, 30	s.s. "Bulysses" ...	British ...	Rangoon, London	Syphilis	The Medical Officer of Health physically examined 50 Asiatic seamen and found one to be suffering from syphilis. He was removed to the Union Hospital, North Shields, for treatment.
April 1	"Volute"	,,	Rangoon, Barrow	Beri Beri ...	The Medical Officer of Health examined 53 of the Lascar crew, and found one to be suffering from beri beri. The case was removed to the Floating Hospital for treatment.
,, 2	s.s. "Hatumet" ...	,,	Calcutta, London	Impetigo ...	Four of the Asiatic seamen were examined and found to be suffering from skin diseases. Medical treatment recommended.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where from.	Nature of Sickness.	REMARKS.
April 2	s.s. "Neva" ...	Russian ...	Windau, Bremen	Influenza ...	The Medical Officer of Health examined the stewardess and found her suffering from a suspicious illness. The case was removed to the Floating Hospital for observation, but afterwards proved to be non-infectious.
,, 7	s.s. "Conch" ...	British ...	Calcutta, Rotterdam	Non-infectious ...	Three of the Asiatic seamen were examined and found to be suffering from non-infectious complaints. Medical treatment recommended.
,, 8	s.s. "Hornsey" ...	,,	London ...	Measles	The Medical Officer of Health examined the crew of 17 hands and found one of the seamen suffering from measles. He was removed to the Floating Hospital for treatment. The forecastles were fumigated and disinfected.
,, 9	s.s. "Nimrod" ...	Austrian	Black Sea, Brake	Suspected Enteric Fever	The Medical Officer of Health examined one of the firemen and found him suffering from suspicious sickness. He was removed to the Floating Hospital for observation. The case afterwards proved to be of a non-infectious character.
,, 21	s.s. "Natica" ...	British ...	Rangoon, Rotterdam	Non-infectious ...	Three of the Asiatic seamen were examined and found to be suffering from a non-infectious complaint. Medical treatment recommended.
,, 23	s.s. "Eleanor" ...	,,	Hamburg ...	Influenza ...	One of the firemen was examined and found to be suffering from influenza. He was sent home for treatment.
,, 28	sl. "Ville de Dieppe"	French ...	Philadelphia, La Pallice	Bronchial Catarrh	The mate was examined and found to be suffering from bronchial catarrh. He was sent home for treatment.
,, 28	s.s. "Heathdene"	British ...	Marseilles ...	Feverish Colds ...	Three of the crew of 57 Lascar seamen were examined and found to be suffering from feverish colds.
,, 30	sl. "Brizeux" ...	French ...	Iquique, Dunkirk	Enteric Fever ...	The Medical Officer of Health examined the crew of 20 hands and found one of the seamen suffering from enteric fever. He was removed to the Floating Hospital for treatment. The crewspaces were fumigated and the water tanks emptied, cleansed and refilled.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where from.	Nature of Sickness.	Remarks.
May 8	s.s. "Cardium" ...	British ...	Calcutta, Thames-haven	Non-infectious ...	Three of the crew of 50 Lascar seamen were examined, and found to be suffering from non-infectious complaints.
„ 8	s.s. "Odessa" ...	Russian ...	Libau, Hull	Jaundice ...	The Medical Officer of Health examined one of the firemen and found him suffering from jaundice. He was sent to the Newcastle Infirmary for treatment.
June 3	s.s. "Ithaque" ...	Greek ...	Black Sea, Hamburg	Influenza ...	One of the crew was examined and found to be suffering from influenza. Medical treatment recommended.
„ 10	s.s. "Maria" ...	„	Black Sea, Odense	Non-infectious ...	One of the firemen was examined, and found to be suffering from a non-infectious complaint.
„ 15	s.s. "Chinese Prince"	British ...	Buenos Ayres, Emden	Smallpox ...	The Medical Officer of Health physically examined the crew as a case of smallpox had been landed at Emden. The crew were found to have all been revaccinated and the vessel disinfected at Emden. The names and addresses of the whole of the crew were taken and forwarded to the respective Medical Officers of Health, and the vessel was visited daily during her stay here. No other cases occurred.
„ 25	s.s. "Arca" ...	„ ...	Rangoon, Hull	Non-infectious ...	Two of the Lascar seamen were examined and found to be suffering from non-infectious complaints.
„ 26	s.s. "Massasoit" ...	„ ...	Rangoon, Hull	Non-infectious ...	Two of the Lascar seamen were examined and found to be suffering from non-infectious complaints.
„ 28	s.s. "Rio Claro" ...	„ ...	Rio de Janeiro	...	The Medical Officer of Health examined the crew and found them all well.
July 3	s.s. "Glencluny" ...	„ ...	Japan, Rotterdam	Non-infectious ...	One of the crew was examined and found to be suffering from cellulitis. Medical treatment recommended.
„ 4	s.s. "Luna" ...	Norwegian	Stavanger, London	Influenza ...	One of the crew was examined and found to be suffering from influenza.
„ 5	sl. "Holland" ...	Dutch ...	Katwik ...	Obstinate Constipation	One of the crew was examined and found to be suffering from constipation. He was sent home for treatment.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where from.	Nature of Sickness.	Remarks.
July 5	s.s. "Rio Blanco"...	British ...	Rio de Janeiro	...	The Medical Officer of Health examined the crew and found them all well.
,, 6	s.s. "Baron Innerdale"	,, ...	Port Pirie, Antwerp	Non-infectious ...	The Medical Officer of Health examined seven of the Lascar seamen and found them to be suffering from non-infectious complaints.
,, 7	s.s. "Carmelite" ...	,, ...	Algiers ...	Dysentery ...	The Medical Officer of Health examined the boatswain and found him suffering from dysentery. He was removed to the Floating Hospital for treatment.
,, 7	s.s. "Aracus" ...	,, ...	Stettin ...	Tonsilitis ... Tapeworm ...	Two of the crew were examined, one was found to be suffering from tonsilitis and the other from tapeworm. Medical treatment recommended.
,, 11	s.s. "Baltic" ...	,, ...	Rio de Janeiro	...	The Medical Officer of Health examined the crew and found them all well.
,, 13	s.s. "Sigyn" ...	Swedish ...	Rouen ...	Injured ribs ...	One of the crew was examined and found to be suffering from a non-infectious complaint.
,, 13	s.s. "Bessheim" ...	Norwegian	Stavanger ...	...	The Medical Officer of Health examined the crew and passengers and found them all well.
,, 15	s.s. "Sophia" ...	Russian ...	Black Sea, Rotterdam	Appendicitis ...	The mate was examined and found to be suffering from appendicitis. He was removed to the Newcastle Infirmary for an operation.
,, 16	s.s. "Quebec" ...	British ...	Karachi	From Plague-infected Port	The Medical Officer of Health examined the crew, who were found all well. Precautions were taken to prevent rats leaving the ship, and the holds and crewspaces were fumigated with sulphur dioxide after the vessels discharge for the destruction of rats. Fifty dead rats were afterwards collected and cremated.
,, 17	sl. "Anne Marie"	French ...	Fecamp ...	Influenza ...	One of the crew examined was found to be suffering from influenza, and was sent home for treatment.
,, 23	s.s. "Royal Sceptre"	British ...	Rio de Janeiro	Infected Port ...	The Medical Officer of Health examined the crew and found them all well. The vessel being from an infected port the necessary precautions were taken.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where from.	Nature of Sickness.	Remarks.
July 27	s.s. "Clan Shaw"	British ...	Chittagong, London	Accident ...	One of the Lascar seamen was examined and found suffering from the effects of an injury to his head.
,, 27	s.s. "Clara Blumenfeld"	German ...	Hamburg ...	Rheumatism ...	One of the firemen was examined and found to be suffering from rheumatism.
,, 28	s.s. "Tua" ...	Swedish ...	Libau ...	Enteric Fever ...	One of the crew was examined and found to be suffering from enteric fever. He was removed to the Floating Hospital for treatment. The crewspaces were fumigated and the water tanks emptied and cleansed.
Aug. 25	s.s. "Dulwich" ...	British ...	Algiers, Antwerp	Malarial Fever ...	The Acting Medical Officer of Health examined one of the crew and found him suffering from a suspicious illness. The case was removed to the Floating Hospital for observation and afterwards developed into one of malarial fever. The crewspaces were fumigated and the water tanks cleansed and refilled.
,, 28	s.s. "Atlas" ...	Norwegian	Rouen ...	Eczema	Two of the crew were examined and found to be suffering from eczema. Medical treatment recommended.
,, 28	s.s. "Claudius Aulagnon"	Greek ...	London ...	Diarrhœa ...	Two of the crew were examined and found to be suffering from non-infectious complaints. Medical treatment recommended.
Sept. 7	s.s. "Baron Innerdale"	British ...	Huelva, London	Influenza ...	The Acting Medical Officer of Health examined two of the crew, and found them suffering from influenza.
,, 8	s.s. "Svava" ...	Danish ...	Odense ...	Scabies	One of the crew was examined and found to be suffering from scabies. He was removed to the Union Workhouse Hospital, South Shields, for treatment. The crewspaces and the patient's clothes were thoroughly disinfected.
,, 19	s.s. "Othello" ...	British ...	Sidney (Cape Breton)	Gastritis ...	The third engineer was examined and found to be suffering from a bilious attack. He was sent home for treatment.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where from.	Nature of Sickness.	REMARKS.
Oct. 1	s.s. "Jose de Aramburu"	Spanish ...	Santander ...	Enteric Fever ...	The Acting Medical Officer of Health examined one of the firemen and found him suffering from enteric fever. He was removed to the Floating Hospital for treatment. The crewspaces were fumigated and the water tanks emptied and cleansed.
,, 8	s.s. "Tregenna" ...	British ...	London ..	Heart Failure ...	The Acting Medical Officer of Health examined the dead body of a fireman who had died suddenly. He was removed to the mortuary for an inquest.
,, 11	s.s. "Condylis" ...	Greek ...	Marseilles ...	Influenza ...	One of the crew was examined and found to be suffering from influenza.
,, 22	s.s. "Conch" ...	British ..	Sabine, Hull	Non-infectious ...	The Acting Medical Officer of Health examined the Chinese crew and found two of them to be suffering from non-infectious complaints.
,, 29	s.s. "Kovda" ...	Russian ...	White Sea, London	Venereal Disease	Four of the crew were examined and found to be suffering from venereal. Medical treatment recommended.
,, 31	s.s. "Stettin" ...	British ...	Caen ...	Pleurisy... ...	One of the crew was examined and found to be suffering from pleurisy. He was sent home for treatment.
Nov. 3	s.s. "Yssel" ...	Dutch ..	Archangel ...	Hernia	The Acting Medical Officer of Health examined one of the seamen and found him suffering from rupture. He was removed to the Newcastle Infirmary to undergo an operation.
,, 12	s.s. "Carmalina" ..	Norwegian	Valencia, London	Influenza ...	Two of the crew were examined and found to be suffering from influenza. Medical treatment recommended.
,, 14	s.s. "Melrose" ...	British ...	Sea... ...	Gastric Ulcer ...	The Acting Medical Officer of Health examined the master and found him suffering from a ruptured ulcer in the stomach. He was removed to the Ingham Infirmary, South Shields, to undergo an operation.
,, 16	s.s. "Macedonia"...	Swedish ...	London ...	Tonsilitis ...	One of the firemen was examined and found to be suffering from tonsilitis.

TABLE II.—*Continued.*

Date.	Name of Vessel.	Nationality.	Where from.	Nature of Sickness.	Remarks.
Nov. 21	s.s. "Bogatyr" ...	Norwegian	Copenhagen	Hernia	One of the crew was examined and found to be suffering from rupture. He was removed to the Newcastle Infirmary for an operation.
„ 24	s.s. "Alphonse Conseil"	French ...	Boulogne ...	Influenza ...	The Acting Medical Officer of Health examined two of the crew and found them suffering from influenza.
„ 25	s.s. "Cardium" ...	British ...	Singapore, Hull	Non-infectious ...	The Acting Medical Officer of Health examined the Chinese crew and found two of them to be suffering from non-infectious complaints.
„ 25	s.s. "Prince Leopold"	„ ...	Cromarty ...	Pulmonary Catarrh	One of the seamen was examined and found to be suffering from pulmonary catarrh. He was sent home for treatment.
Dec. 2	H.M.S. "Illustrious"	„ ...	...	...	The Acting Medical Officer of Health boarded H.M. warship "Illustrious" and made arrangements with the Staff-Surgeon regarding any sickness that should occur during her stay in this port.
„ 6	s.s. "Dunbarmoor"	„ ...	Karachi ...	Infected port ...	The Acting Medical Officer of Health examined the crew of 28 hands and found them all well. The vessel being wheat laden all precautions were taken to prevent rats leaving the ship.
„ 15	s.s. "Edna" ...	Danish ...	Valencia, Llanelly	Alcoholism ...	The master was examined and found to be suffering from intemperance.
„ 17	s.s. "Rubonia" ...	Russian ...	London ...	Non-infectious ...	Two of the crew were examined and found to be suffering from non-infectious complaints.
„ 17	s.s. "Silkeborg" ...	Danish ...	Copenhagen	Heart affection, Gastric Catarrh	Two of the crew were examined and found to be suffering from non-infectious complaints.
„ 24	s.s. "Ragni" ...	Norwegian	Malmo ...	Bronchitis ...	The Acting Medical Officer of Health examined the master and found him suffering from bronchitis.
„ 28	s.s. "Frogner" ...	„ ...	Leith ...	Tonsilitis ...	Four of the crew were examined and found to be suffering from tonsilitis. Medical treatment recommended.
„ 28	s.s. "Grekland" ...	Swedish ...	Gothenborg	Fatal Accident ...	The Acting Medical Officer of Health examined the body of one of the seamen who had fallen down the ship's hold.
„ 29	s.s. "Anine" ...	Danish ...	Tayport ...	Hernia	One of the crew was examined and found to be suffering from rupture. He was sent home for treatment.
„ 30	s.s. "Bainbridge"	Norwegian	Calais ...	Gastric Catarrh	The 3rd engineer was examined and found to be suffering from non-infectious complaint.

GENERAL SICKNESS ON BOARD

The subjoined Table gives a return of cases of Sickness* reported by Masters notice of the Tyne Port Officials

DATE. 1914.	Smallpox or Suspected Smallpox.	Malarial Fever.	Beri Beri.	Enteric or Typhoid Fever.	Diarrhœa or Choleraic Diarrhœa.	Measles.	Diphtheria.	Dysentery.	Intemperance.	Heart Disease.	Consumption.	Rheumatism.	Influenza.	Rupture.	Cramp.	Appendicitis.	Paralysis.
January ...	...	2	...	o 1	1	...	...	2	...	2	...	2	3	...	...	...	1
February ...	...	1	...	o 2	...	...	o 1	1	...	...	4	4	...	2	1	...	...
March ...	...	...	...	...	ooo 4	x 2	...	...	...	...	1	x 1	7	4	2	...	...	1
April ...	...	...	o 1	o 1	oo 3	1	o 1	...	...	x 1	...	1	3	1	...	...	2	...
May ...	...	...	...	...	...	...	...	...	...	...	2	1	5	3	2	...	...	1
June ...	...	1	...	x 2	...	...	...	...	..	...	1	x 2	1	...	1	...	1	x 3
July ...	...	...	1	...	oo 2	...	...	...	...	...	4	3	5	2	...	...	...	...
August ...	...	...	...	...	o 2	...	...	...	...	...	x 1	...	...	...	2	...	...	...
September	...	...	...	1	7	1	...	...	...	...	...	...	2	1	...	...	...	...
October	...	...	1	1	o 4	1	...	...	...	...	xx 2	1	4	3	...	4	1	...
November	...	...	...	1	4	1	...	...	...	...	1	...	3	2	4	1	1	...
December	...	...	2	x 3	1	...	...	...	...	1	...	1	6	2	1	...	1	...
TOTALS	...	1	8	9	30	7	1	1	3	2	14	14	42	21	14	6	6	6

* The names of the Diseases during voyage are given as reported by the Masters of the Vessels.

VESSELS ARRIVING IN TYNE PORTS.

of Vessels as having occurred during the Voyage, or coming under the

in each month of the year 1914.

Bronchitis.	Pleurisy.	Pneumonia.	Tonsilitis.	Inflammation.	Indigestion.	Blood Poisoning.	Insanity.	Skin Diseases.	Lumbago.	Kidney Complaints.	Piles.	Abscesses.	Disordered Stomach.	Boils.	Cold.	Venereal.	Accidents.	Undefined.	TOTALS.
1	...	...	...	...	...	...	...	...	...	...	...	...	4	...	9	8	xx 16	2	54
2	...	...	1	...	...	...	...	...	2	1	...	...	4	...	5	7	x 11	6	55
...	1	...	...	1	1	...	...	1	1	...	...	1	6	...	7	11	x 30	11	93
2	...	...	..	1	3	...	...	...	...	...	1	...	3	2	9	7	xx 17	6	66
...	1	...	...	2	1	2	...	1	...	...	...	...	6	...	7	6	x 14	6	60
1	...	1	...	x 1	...	3	x 1	...	...	...	...	...	3	1	9	10	xx 16	7	65
...	1	2	1	2	...	3	x 1	...	1	...	...	...	3	1	2	15	xx 21	4	74
...	...	...	...	...	...	x 1	...	...	...	...	...	...	6	...	2	5	x 6	x 3	28
...	...	...	...	...	...	...	...	1	...	...	...	...	3	...	3	2	x 6	2	29
...	1	...	...	...	...	...	...	...	1	...	...	...	2	1	4	3	9	4	47
1	...	1	2	x 1	...	2	1	...	...	...	1	2	2	1	7	5	12	6	62
3	1	...	...	1	1	3	...	...	...	2	1	...	2	1	22	9	xxx 14	3	81
10	5	4	4	9	6	14	3	3	5	3	3	3	44	7	86	88	172	60	714

o Removed to Tyne Floating Hospital. x Deaths.

Vessels arriving from Infected or Suspected Ports.*

The following return shows the number of Vessels boarded in this Port by the Officers of the Port Sanitary Authority, on account of coming directly or otherwise from Foreign Ports infected, or suspected to be infected, with Cholera, Yellow Fever, Plague, or Smallpox :—

Months.	From Infected Ports.		From Suspected Ports.		Totals.
	Direct to the Tyne.	To the Tyne Indirectly.	Direct to the Tyne.	To the Tyne Indirectly.	
1914.	No. of Vessels.	No. of Vessels.	No. of Vessels.	No. of Vessels.	
January	—	11	—	39	50
February	1	15	1	39	56
March	—	22	4	36	62
April	—	18	—	33	51
May	—	21	1	42	64
June	2	20	—	45	67
July	2	10	2	37	51
August	—	8	—	16	24
September	—	6	1	10	17
October	—	—	—	7	7
November	—	5	—	6	11
December	2	6	1	8	17
Total	7	142	10	318	477

* See opposite page.

Vessels arriving in the Tyne from infected ports were boarded by the Officers of the Tyne Port Sanitary Authority, as under:—

Name of Ports.	Direct to the Tyne.	To the Tyne Indirectly.	Name of Ports.	Direct to the Tyne.	To the Tyne Indirectly.
Alexandria ... ...§	1	15	*Brought Forward* ...	3	95
Bombay ... ‡§	1	20	Mangalore ... ‡§	—	1
Bassein ... ‡§	—	8	Moulmein ... ...§	—	3
Bangkok ... ...§	—	2	Madras ... ‡§	—	4
Bahia Blanca *§	—	9	Port Said ... ...§	1	5
Batavia ... ...§	—	2	Persian Gulf ...§	—	5
Callao ... ...§	—	1	Rio de Janeiro *§	3	5
Calcutta ... ‡§	—	7	Rangoon ... ‡§	—	13
Colombo ... ...§	—	2	Smyrna ... ...§	—	5
Dakar ... ...§	—	10	Singapore ... ...§	—	4
Guayaquil ... §*	—	1	Saigon ... ...§	—	2
Karachi ... ‡§	1	18			
Carried Forward ...	3	95	Total	7	142

§ Plague. ‡ Cholera. * Yellow Fever.

SMALLPOX AND SUSPECTED SMALLPOX.

Date.	Name of Vessel.	From.	On Voyage	On or after Arrival.	Remarks.	Notes on Arrival in Tyne.
1914. June 15 ...	s.s. "Chinese Prince"	Rosario, Buenos Ayres, Emden	1	—	Left at Hamburg ...	Vessel disinfected there.

ENTERIC OR TYPHOID FEVER.

1914. Jan. 30 ...	s.s. "Constance Catharina"	Boulogne ...	—	1	Removed to Floating Hospital.	Vessel disinfected here.
Feb. 14 ...	s.s. "Emma" ...	Riga, Dunkirk	—	1	Removed to Floating Hospital.	Vessel disinfected here.
„ 17 ...	s.s. "Axel" ...	St. Petersburg, Ipswich	1	—	Left at Ipswich ...	Vessel disinfected there.
Mar. 1 ...	s.s. "Emma" ...	Dunkirk	—	1	Removed to Floating Hospital.	Vessel disinfected here.
„ 5 ...	s.t. "Canada" ...	Boulogne ...	—	1	Removed to Floating Hospital.	Vessel disinfected here.
„ 17 ...	s.s. "Drake" ...	London ...	1	—	Left at London ...	Vessel disinfected there.
„ 19 ...	s.s. "Aladdin" ...	Dantzic ...	—	1	Removed to Floating Hospital.	Vessel disinfected here.
Apr. 3 ...	s.s. "Neva" ...	Windau, Bremen	—	1	Removed to Floating Hospital.	Vessel disinfected here.
„ 25 ...	s.s. "City of Perth"...	Odessa, Malta, London	1	—	Left at London ...	Vessel disinfected there.
„ 30 ...	sl. "Brizeux" ...	Dunkirk ...	—	1	Removed to Floating Hospital.	Vessel disinfected here.
July 7 ...	s.s. "Carmelite" ...	Algiers ...	—	1	Removed to Floating Hospital.	Vessel disinfected here.
„ 29 ...	s.s. "Tua" ...	Libau ...	—	1	Removed to Floating Hospital.	Vessel disinfected here.
Aug. 24 ...	s.s. "Gadsby" ...	Montreal, London	1	—	Left at London ...	Vessel disinfected there.
„ 25 ...	s.s.. "Dulwich" ...	Algiers, Antwerp	—	1	Removed to Floating Hospital.	Vessel disinfected here.
Sept. 26 ...	s.s. "Grainton" ...	Galveston, London	7	—	Left at Gravesend...	Vessel disinfected there.
Oct. 1 ...	s.s. "Jose de Aramburu"	Santander ...	—	1	Removed to Floating Hospital.	Vessel disinfected here.
„ 19 ...	s.s. "Demeterton" ...	Galveston, Hull	1	—	Left at Hull ...	Vessel disinfected there.
„ 28 ...	s.s. "Rygja" ...	Valencia ...	2	—	Left at Valencia ...	Vessel disinfected there.
Nov. 6 ...	s.s. "Beeswing" ...	Archangel, Dundee	1	—	Left at Archangel...	Vessel disinfected there.
„ 16 ...	s.s. "Liv" ...	Christiansund	2	—	Left at Kirkwall ...	Vessel disinfected there.
„ 23 ...	s.s. "Northville" ...	La Goulette, Hartlepool	1	—	Left at Spezzia ...	Vessel disinfected there.
Dec. 30 ...	s.s. "Millicent Knight"	Karachi, Hull	1	—	Left at Hull ...	Vessel disinfected there.
			19	11		

MALARIAL FEVER.

Date.	Name of Vessel.	From.	No. of Cases. On Voyage.	No. of Cases. On or after Arrival.
1914.				
Jan. 12	s.s. "Lord Antrim"	Bourgas, Antwerp	1	—
,, 23	s.s. "White Sea"	Vivero, Rotterdam	—	1
Feb. 11	s s. "Colava"	Bombay, Antwerp	1	—
April 9	s.s. "Nimrod"	Odessa, Brake	—	1
July 20	s.s. "Waveley"	Port Tampa, Rotterdam	1	—
Oct. 9	s.s. "Bernicia"	Taganrog, Falmouth	1	—
Dec. 3	s.s. "Kursk"	New York	2	—
			6	2

BERI-BERI.

1914.				
April 1	s.s. "Volute"	Rangoon, Barrow	—	1
June 25	s.s. "Arca"	Rangoon, Hull	1	—
,, 26	s.s. "Arca"	,, ,, ...	—	1
Sept. 7	s.s. "Baron Innerdale" ...	Huelva, London	—	1
Oct. 23	s.s. "Conch"	Sabine, Hull	—	1
Nov. 26	s.s. "Cardium"	Singapore, Hull...	—	1
Dec. 7	s.s. "Trocas"	Rangoon, Invergordon	3	—
			4	5

MEASLES.

1914.				
April 8	s.s. "Hornsey"	London	—	1

DYSENTERY.

1914.				
Jan. 25	s.s. "Culna"	Antwerp	—	1
,, 28	s.s. "Elswick Grange" ...	Alexandria, London	1	—
Feb. 5	s.s. "Kalomo"	Australia, Antwerp	—	1
			1	2

DIPHTHERIA.

Date.	Name of Vessel.	From.	On Voyage.	On or after Arrival.	Remarks.	Notes on arrival in Tyne.
1914. Feb. 23 ...	s.s. "Leif" ...	Halmstadt, Bo'ness	—	1	Removed to Floating Hospital.	Vessel disinfected here.

DIARRHŒA, CHOLERAIC DIARRHŒA AND SUSPICIOUS CASES.

Date	Name of Vessel.	From.	No. of Cases.	
			On Voyage.	On or after Arrival.
1914.				
Jan. 21	s.s. "Marthara"	New Orleans, Antwerp	—	1
Mar. 4	s.s. "Queen Amelia" ...	Fremantle	1	—
„ 31	s.s. "Rokeby"	Santos, Newport News, London ...	1	—
Apr. 23	s.s. "Eleanor"	Hamburg	—	1
Sept. 7	s.s. "Midsurrey"	Havre	—	1
Oct. 13	s.s. "Hubbuck"	Oran, Algiers	1	—
Nov. 24	s.s. "Alphonse Conseil" ...	Boulogne	—	1
			3	4

Regulations as to Food Act, 1908.

Inspector Russell has regularly inspected the cargoes of vessels arriving in the Tyne and Albert Edward Docks, and at the Dunston Co-operative Flour Mills.

Tyne Dock.

The foodstuffs imported into this Dock during the year by steamers from the United States, Canada, Russia, Portugal, Argentine, Australia, Norway and Sweden have been inspected:—Grain, 55,033 tons; Condensed Milk, 8,605 cases; Margarine, 366 cases; Butter, 983 kegs; Game, 12 cases; Fish, 20 cases; Fruit, 1,101 cases; Tomatoes, 109 cases. The consignments were found in good condition.

Unsound Food.

The Collector of H.M. Customs detained for our inspection at Tyne Dock, per the s.s. "Bessheim" and s.s. "Sterling" from Christiania, during the year the following consignments:—

Forty-eight casks of Tripe. Four of these containing 8 cwts. 3 qrs. 13 lbs. were seized as unfit for human food, and with the consent of the Importers were destroyed.

Thirty-two casks of Pigs' Maws, containing 4 tons 3 cwts. 2 qrs. 8 lbs. This is an illegal importation. The packages bore the official certificate of the Government of Norway. A notice as required by Article 111 (5) of the Public Health (Foreign Meat) Regulations, 1908, was served upon the Importer, and the meat was returned to the port of shipment.

Three casks of Offal containing 4 cwts. were seized as unfit for food, and with the consent of the Importer were destroyed.

Two casks of Cows' Udders were examined, and one, weighing 3 cwts. 7 lbs. was found in a decomposed condition, and with the Importer's consent was destroyed.

Albert Edward Dock.

Cargoes consisting of 5,080 tons of Wheat from Australia were inspected in this Dock, and were found in good condition.

Dunston Flour Mills.

Wheat cargoes consisting of 38,247 tons were inspected at the wharf of the above Mills from Canadian, Indian and Australian ports, and with the exception of 4,312 bags damaged by sweating and condemned with the sanction of the Owners, the remainder was found in good condition.

Mill Dam Wharf, South Shields.

Eleven cargoes of Potatoes, ten from Scotland and one from Denmark, were inspected and were found in good condition.

Fish Quay, North Shields.

All vessels arriving with White Fish and Herrings have been inspected daily at the Fish Quay. The fish landed from the boats was found to be of good quality.

Special Cargoes Inspected.

Among the different cargoes examined by the Inspectors were the undermentioned :—

Description.	Onions.	Wheat.	Foreign and British Fish.	Potatoes.	Fruit.	Total.
Number of Consignments examined ...	2	104	1,031	27	59	1,223

Emigrants.

The Emigrant vessels coming to the Tyne have been visited by the Medical Officer and Inspectors on arrival, and kept under supervision whilst in Port.

Information as to Emigrants debarking here and proceeding overland to other British ports, continues to be forwarded to the Medical Officers of Health of the respective Ports.

4,306 Emigrants have passed through the Port during 1914, en route to America via Liverpool, Southampton, Bristol, and Glasgow. All were found well before leaving this Port.

General Sanitary Work.

The following is the report of inspections made and other work done by Inspector Russell and his assistants, during 1914.

No. of vessels arriving from Foreign ...	1,933	No. inspected...	1,881
„ „ „ Home Trade...	3,113	„ „ ...	3,036
„ „ „ Coastwise ...	6,687	„ „ ...	4,590
	11,733	...	9,507

British Steamers	4,509
„ Sailing Vessels	126
„ Fishing „	1,031
Foreign Steamers	3,724
„ Sailing Vessels	117
Total	9,507

Visits to Water Boats	18

The Nationalities of the Vessels were as follows :—

British	5,666
Norwegian	1,451
German	422
Swedish	425
Danish	520
Spanish	302
French	100
Russian	86
Greek	71
Dutch	340
Italian	18
Austrian	56
Belgian	45
American	2
Japanese	1
Chilian	1
Portuguese	1
Total	9,507

Of the above Vessels, the Sanitary condition was as follows :—

Good	8,749
Structural defects	376
Dirty condition	382
Total	9,507

The Number of Vessels inspected during each year for the last 10 years has been as follows :—

1904	8,787
1905	8,139
1906	8,433
1907	9,905
1908	10,603
1909	10,270
1910	9,387
1911	9,614
1912	9,335
1913	11,139

The structural defects of Vessels observed include the following :—

	Cases.
Insufficient Ventilation	12
Iron Deck to Line with Wood	2
Paints to remove from Bow Locker	17
Defective Lighting	5
Defective Water Closets	21
Forecastle Deck Leaking	75
Side Scuttles to re-fit	195
Forecastle Flooring Defective	2
Defective Drainage	12
,, Bulkhead	3
,, Stoves	18
,, Chain Casing...	14
Total	376

The peaks, forecastles, water closets, and bilges of the vessels specified under were found in dirty condition. The orders given to cleanse same were fully complied with.

British Steamers	196
,, Sailing Vessels	8
,, Fishing Vessels	12
Foreign Steamers	165
,, Sailing Vessels	1
Total	382

Total number of crews of vessels visited by the Inspectors	176,415
,, ,, passengers ,, ,, ,, ,, ...	30,487
,, ,, emigrants arriving in the Tyne	4,306
Total	211,208

In addition to the daily routine inspection of the sanitation of vessels, several special visits have to be made to many vessels on reports on sickness, and in some cases extensive precautions are required in dealing with actual cases of infectious diseases.

214 revisits have been made by our Inspectors during the year, in order to have the above defects remedied to our satisfaction on written or verbal notice.

Water-Boats and Water Supply to Ships in Port.

The water-boats, 18 in number, have been examined as usual, and the tanks found in good condition.

In 29 cases the *drinking water* of ships, which came from Ports infected or suspected to be infected, with cholera, has been changed, and the purification of the tanks has been seen to by the Inspector, acting under the direction of the Medical Officer of Health.

Advice as to Sickness

on shipboard, and other matters, continue to be received from and forwarded to the Health Departments of other British Port Sanitary Authorities.

Clothing and Bedding.

10 vessels and several lots of clothing or bedding have been **disinfected.** 334 old beds have been burnt, and 4 lots of filthy clothing have been destroyed, on account of infection.

Passenger Steamers.

The Passenger Steamers arriving continue to be regularly visited and examined.

Smoke Nuisance.

The Inspector reports that it has not been necessary to take any action against Masters of Steamers for the evolution of dense smoke during 1914.

Fishing Boats.

The total arrival of fishing vessels at the Quay, North Shields, steam and sailing, is 10,282,* 3,166 Trawlers and 7,116 Herring Boats, as compared with a total of 15,384 in the previous year, 12 of these, in a foul condition, were cleansed and deodorized on notice from the Inspector. The rest were in good order.

* From a return courteously furnished by Mr. Thos. MacKenzie, Quay Master, North Shields.

Regulations.

Copies of Regulations issued have, as usual, been posted on all ferry landings, and delivered on board of vessels in the Port.

Cholera and Plague.

No cases of Cholera occurred in the Port during the year 1914. Six vessels have been fumigated on account of coming from a plague-infected port, and 126 dead rats were found after the fumigation and cremated.

Steel Screw Launch "Geo. C. Coates."

Built by Messrs. W. Hepple & Co., Ltd., South Shields, and engined by Messrs. The Shields Engineering and Dry Dock Co., North Shields, from designs by Mr. Henry Sanderson, Consulting Engineer, Quayside, Newcastle-on-Tyne, under whose supervision the launch was constructed.

The length between perpendiculars is	70 feet.
Breadth, moulded	13 ,,
Depth, ,, ...	6 feet 6 inches,

having straight stem and eliptical stern and flush deck fore and aft.

Good crew accommodation is provided in the fore cabin, having all the necessary equipment and being well lighted.

The steering house constructed of teak is provided on fore deck.

The saloon is constructed on the break deck principal, finished throughout with plain oak and provided with suspended ambulance guides to enable the stretcher to be slung at a convenient height.

The machinery consists of one set of inverted triple expansion surface condensing engines having separate condenser and independent centrifugal circulating pump.

Steam is supplied by one cylindrical steel boiler, working at 200 lbs. a square inch, under Howdon system of forced draught or natural draught as desired.

Electric light is supplied by one steam dynamo, and the launch is provided with portable clusters to send on board of vessels when transmitting patients at night time.

Steam connections are provided for disinfecting purposes either on board ship or at hospital.

A speed of over 12 knots was attained at the trial, and general satisfaction was expressed by all concerned.

Launches.

The new launch "Geo. C. Coates," constructed by Messrs. Hepple & Co., Ltd., of South Shields, was taken over by the Tyne Port Sanitary Authority, on February 25th, and has done good work since in the inspection and disinfection of vessels. She fulfils all our requirements, is speedy, and works satisfactorily.

The old launch "John Foster Spence" was taken over by Messrs. Hepple & Co., Ltd., as part payment for the "Geo. C. Coates." She has since been sold to Sunderland.

The motor boat "R.S.H." has been found to be very useful in the inspection of vessels; being of shallow draft, she is easily handled and can go alongside of quays and docks at low water.

H.M. Customs.

I wish to record our thanks for the valuable and willing assistance given by H.M. Collector of Customs and his staff which has been greatly appreciated by all the Officials of the Port Sanitary Authority.

W. EDMUND HARKER, M.D., D.Hy.,
Medical Officer.

Tynemouth,
January, 1915.